Amdt. Dated: April 12, 2005

Reply to Office action of: 02/18/2005

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1.(Currently Amended)

An automated data storage library, comprising:

a plurality of storage shelves for storing portable data storage media;

at least one data storage drive for transferring data with respect to said portable data

storage media;

a plurality of accessors which separately access and transport portable data storage media

with respect to said plurality of storage shelves and said at least one data storage drive, along at

least one path, and which interfere with one another along said at least one path; and

a library controller for operating said plurality of accessors, said library controller, in

response to detection of detects restricted movement of one of said plurality of accessors at a

position along said at least one path by failure to move said one of said plurality of accessors to a

service bay, and determines a range of motion of another of said plurality of accessors along said

at least one path which avoids interfering with said accessor having said restricted movement, at

said position along said at least one path.

2.(Original) The automated data storage library of Claim 1, additionally comprising a phirality

of frames in sequence along said at least one path, said frames supporting said plurality of storage

shelves and said at least one data storage drive; and wherein said library controller additionally

s/n: 10/720,886

2

Amdt. Dated : April 12, 2005

Reply to Office action of: 02/18/2005

determines the one of said frames in which said accessor having said restricted movement is

positioned, to detect said position along said at least one path of said accessor having said

restricted movement.

3.(Original) The automated data storage library of Claim 2, wherein said library controller

determines said range of motion comprising limiting motion of said another accessor to said

frames of said sequence, extending from a frame of said sequence spaced from said one of said

frames in which said accessor having said restricted movement is positioned, to one end of said

automated data storage library, all in the direction of said at least one path toward said another

accessor.

4.(Original) The automated data storage library of Claim 1, wherein said storage shelves are

arranged in a plurality of columns along said at least one path; and wherein said library controller

additionally determines the one of said columns at which said accessor having said restricted

movement is substantially positioned, to detect said position along said at least one path of said

accessor having said restricted movement.

5.(Original) The automated data storage library of Claim 4, wherein said library controller

determines said range of motion comprising limiting motion of said another accessor along said at

least one path, extending from a column spaced from said column at which said accessor having

said restricted movement is positioned, to one end of said automated data storage library, all in

3

the direction of said at least one path toward said another accessor.

s/n: 10/720,886

Amdt. Dated: April 12, 2005

Reply to Office action of: 02/18/2005

6.(Currently Amended) The automated data storage library of Claim 1, An automated data storage library, comprising: a plurality of storage shelves for storing portable data storage media; at least one data storage drive for transferring data with respect to said portable data storage media; a plurality of accessors which separately access and transport portable data storage media with respect to said plurality of storage shelves and said at least one data storage drive, along at least one path, and which interfere with one another along said at least one path; and a library controller for operating said plurality of accessors, said library controller, in response to detection of restricted movement of one of said plurality of accessors at a position along said at least one path, determines a range of motion of another of said plurality of accessors along said at least one path which avoids interfering with said accessor having said restricted movement, at said position along said at least one path; wherein said library controller additionally operates said another of said plurality of accessors to attempt to move [[said]] a failed accessor to detect said restricted movement of one of said plurality of accessors, detecting said restricted movement by failure to move said failed accessor, and detecting the position of said another accessor along said at least one path at said failure.

7.(Currently Amended) The automated data storage library of Claim [[1]] 6, wherein said library controller reads said position of said accessor having said restricted movement, from said failed accessor.

s/n: 10/720,886 4 TUC920030160US1

Amdt. Dated: April 12, 2005

Reply to Office action of: 02/18/2005

8.(Original) The automated data storage library of Claim 7, wherein said library controller additionally operates said another of said plurality of accessors to attempt to move said failed accessor to detect said restricted movement of one of said plurality of accessors, and detects said restricted movement by failure to move said failed accessor.

9.(Original) The automated data storage library of Claim 7, wherein said failed accessor having said restricted movement, provides a movement failure indication, and said library controller detects said restricted movement of one of said plurality of accessors, from a received movement failure indication from said failed accessor.

10.(Withdrawn) An automated data storage library, comprising:

a plurality of storage shelves for storing portable data storage media;

at least one data storage drive for transferring data with respect to said portable data storage media;

a plurality of accessors which separately access and transport portable data storage media with respect to said plurality of storage shelves and said at least one data storage drive, along at least one path, and which interfere with one another along said at least one path;

a work queue of commands for operating at least one of said plurality of accessors; and

a library controller for operating said plurality of accessors, said library controller:

detects restricted movement of one of said plurality of accessors at a position along said at least one path;

determines a limit to commands of said work queue, said limit from and past said position of said accessor having said restricted movement, along said at least one path; and s/n: 10/720,886

5

TUC920030160US1

Amdt. Dated: April 12. 2005

Reply to Office action of: 02/18/2005

prevents execution of said limited commands.

11.(Withdrawn) The automated data storage library of Claim 10, wherein said library

controller fails said limited commands with a "hardware" error to prevent execution of said

limited commands.

12.(Withdrawn) The automated data storage library of Claim 10, wherein said commands

for operating said at least one of said plurality of accessors comprise at least an origin and a

destination, and wherein said library controller determines whether either an origin or a

destination of a command of said work queue is beyond said limit, to determine said limit to

commands of said work queue.

13.(Withdrawn) The automated data storage library of Claim 12, wherein said automated

data storage library comprises a plurality of frames in sequence along said at least one path; and

wherein said library controller additionally determines the one of said frames in which said

accessor having said restricted movement is positioned, to detect said position along said at least

one path of said accessor having said restricted movement.

14.(Withdrawn) The automated data storage library of Claim 13, wherein said library

controller establishes said limit to commands of said work queue at a frame of said sequence

spaced from said one of said frames in which said accessor having said restricted movement is

positioned, said frame spaced in the direction of said at least one path toward said another

accessor, to determine said limit to commands of said work queue.

s/n: 10/720,886

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Amdt. Dated: April 12, 2005

Reply to Office action of: 02/18/2005

15.(Withdrawn) The automated data storage library of Claim 12, wherein said storage shelves are arranged in a plurality of columns along said at least one path; and wherein said library controller additionally determines the one of said columns at which said accessor having said restricted movement is substantially positioned, to detect said position along said at least one path of said accessor having said restricted movement.

16.(Withdrawn) The automated data storage library of Claim 15, wherein said library controller establishes said limit to commands of said work queue at a column spaced from said column at which said accessor having said restricted movement is positioned, said column of said limit spaced in the direction of said at least one path toward said another accessor, to determine said limit to commands of said work queue.

17.(Currently Amended) A controller for operating a plurality of accessors of an automated data storage library which separately access said automated data storage library along at least one path, and which interfere with one another along said at least one path, said controller:

detects restricted movement of one of said plurality of accessors at a position along said at least one path by failure to move said one of said plurality of accessors to a service bay; and

determines a range of motion of another of said plurality of accessors along said at least one path which avoids interfering with said accessor having said restricted movement, at said position along said at least one path.

Amdt. Dated: April 12, 2005

Reply to Office action of: 02/18/2005

18.(Original) The controller of Claim 17, wherein said automated data storage library comprises a plurality of frames in sequence along said at least one path; and wherein said controller additionally determines the one of said frames in which said accessor having said restricted movement is positioned, to detect said position along said at least one path of said accessor having said restricted movement.

19.(Original) The controller of Claim 18, wherein said controller determines said range of motion comprising limiting motion of said another accessor to said frames of said sequence, extending from a frame of said sequence spaced from said one of said frames in which said accessor having said restricted movement is positioned, to one end of said automated data storage library, all in the direction of said at least one path toward said another accessor.

20.(Original) The controller of Claim 17, wherein said automated data storage library comprises a plurality of storage shelves for storing portable data storage media for access by said plurality of accessors, said storage shelves arranged in a plurality of columns along said at least one path; and wherein said controller additionally determines the one of said columns at which said accessor having said restricted movement is substantially positioned, to detect said position along said at least one path of said accessor having said restricted movement.

21.(Original) The controller of Claim 20, wherein said controller determines said range of motion comprising limiting motion of said another accessor along said at least one path, extending from a column spaced from said column at which said accessor having said restricted movement is

Appl. No.: 10/720,886 Amdt. Dated : April 12, 2005

Reply to Office action of: 02/18/2005

positioned, to one end of said automated data storage library, all in the direction of said at least one path toward said another accessor.

22.(Currently Amended) The controller of Claim 17, A controller for operating a plurality of accessors of an automated data storage library which separately access said automated data storage library along at least one path, and which interfere with one another along said at least one path, said controller:

detects restricted movement of one of said plurality of accessors at a position along said at least one path; and

determines a range of motion of another of said plurality of accessors along said at least one path which avoids interfering with said accessor having said restricted movement, at said position along said at least one path; wherein said controller additionally operates said another of said plurality of accessors to attempt to move [[said]] a failed accessor to detect said restricted movement of one of said plurality of accessors, detecting said restricted movement by failure to move said failed accessor, and detecting the position of said another accessor along said at least one path at said failure.

23.(Currently Amended) The controller of Claim [[17]] 22, wherein said controller reads said position of said accessor having said restricted movement, from said failed accessor.

Amdt. Dated: April 12. 2005

Reply to Office action of: 02/18/2005

24.(Original) The controller of Claim 23, wherein said controller additionally operates said another of said plurality of accessors to attempt to move said failed accessor to detect said restricted movement of one of said plurality of accessors, and detects said restricted movement by failure to move said failed accessor.

25.(Original) The controller of Claim 23, wherein said failed accessor having said restricted movement, provides a movement failure indication, and said controller detects said restricted movement of one of said plurality of accessors, from a received movement failure indication from said failed accessor.

26.(Withdrawn) A controller for operating a plurality of accessors of an automated data storage library which separately access said automated data storage library along at least one path, and which interfere with one another along said at least one path, said automated data storage library having a work queue of commands for operating at least one of said plurality of accessors, said controller:

detects restricted movement of one of said plurality of accessors at a position along said at least one path;

determines a limit to commands of said work queue, said limit from and past said position of said accessor having said restricted movement, along said at least one path; and prevents execution of said limited commands.

Amdt Dated: April 12, 2005

Reply to Office action of: 02/18/2005

27. (Withdrawn) The controller of Claim 26, wherein said controller fails said limited commands with a "hardware" error to prevent execution of said limited commands.

28.(Withdrawn) The controller of Claim 26, wherein said commands for operating said at least one of said plurality of accessors comprise at least an origin and a destination, and said controller determines whether either an origin or a destination of a command of said work queue is beyond said limit, to determine said limit to commands of said work queue.

29 (Withdrawn) The controller of Claim 28, wherein said automated data storage library comprises a plurality of frames in sequence along said at least one path; and wherein said controller additionally determines the one of said frames in which said accessor having said restricted movement is positioned, to detect said position along said at least one path of said accessor having said restricted movement.

30.(Withdrawn) The controller of Claim 29, wherein said controller establishes said limit to commands of said work queue at a frame of said sequence spaced from said one of said frames in which said accessor having said restricted movement is positioned, said frame spaced in the direction of said at least one path toward said another accessor, to determine said limit to commands of said work queue.

Amdt, Dated : April 12, 2005

Reply to Office action of: 02/18/2005

31.(Withdrawn) The controller of Claim 28, wherein said automated data storage library

comprises a plurality of storage shelves for storing portable data storage media for access by said

plurality of accessors, said storage shelves arranged in a plurality of columns along said at least

one path, and wherein said controller additionally determines the one of said columns at which

said accessor having said restricted movement is substantially positioned, to detect said position

along said at least one path of said accessor having said restricted movement.

32. (Withdrawn) The controller of Claim 31, wherein said controller establishes said limit to

commands of said work queue at a column spaced from said column at which said accessor

having said restricted movement is positioned, said column of said limit spaced in the direction of

said at least one path toward said another accessor, to determine said limit to commands of said

work queue.

33.(Currently Amended) A method for operating a plurality of accessors of an automated

data storage library which separately access said automated data storage library along at least one

path, and which interfere with one another along said at least one path, said method comprising

the steps of:

detecting restricted movement of one of said plurality of accessors at a position along said

at least one path by failure to move said one of said plurality of accessors to a service bay; and

determining a range of motion of another of said plurality of accessors along said at least

one path which avoids interfering with said accessor having said restricted movement, at said

position along said at least one path.

s/n: 10/720,886

12

P. 17/32

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Appl. No.: 10/720,886

Amdt. Dated : April 12, 2005

Reply to Office action of: 02/18/2005

34.(Original) The method of Claim 33, wherein said automated data storage library comprises a

plurality of frames in sequence along said at least one path; and wherein said step of detecting said

restricted movement of one of said plurality of accessors at a position along said at least one path,

additionally comprises determining the one of said frames in which said accessor having said

restricted movement is positioned.

35.(Original) The method of Claim 34, wherein said step of determining said range of motion

comprises limiting motion of said another accessor to said frames of said sequence, extending

from a frame of said sequence spaced from said one of said frames in which said accessor having

said restricted movement is positioned, to one end of said automated data storage library, all in

the direction of said at least one path toward said another accessor.

36.(Original) The method of Claim 33, wherein said automated data storage library comprises a

plurality of storage shelves for storing portable data storage media for access by said plurality of

accessors, said storage shelves arranged in a plurality of columns along said at least one path; and

wherein said step of detecting said restricted movement of one of said plurality of accessors at a

position along said at least one path, additionally comprises determining the one of said columns

at which said accessor having said restricted movement is substantially positioned.

s/n: 10/720,886 13 TUC920030160US1

Amdt. Dated: April 12, 2005

Reply to Office action of: 02/18/2005

37.(Original) The method of Claim 36, wherein said step of determining said range of motion comprises limiting motion of said another accessor along said at least one path, extending from a column spaced from said column at which said accessor having said restricted movement is positioned, to one end of said automated data storage library, all in the direction of said at least one path toward said another accessor.

38.(Currently Amended) The method of Claim 33, A method for operating a plurality of accessors of an automated data storage library which separately access said automated data storage library along at least one path, and which interfere with one another along said at least one path, said method comprising the steps of:

detecting restricted movement of one of said plurality of accessors at a position along said at least one path; and

determining a range of motion of another of said plurality of accessors along said at least one path which avoids interfering with said accessor having said restricted movement, at said position along said at least one path; wherein said step of detecting said restricted movement of one of said plurality of accessors at a position along said at least one path, comprises operating said another of said plurality of accessors to attempt to move [[said]] a failed accessor, detecting said restricted movement by failure to move said failed accessor, and detecting the position of said another accessor along said at least one path at said failure.

39.(Currently Amended) The method of Claim [[33]] 38, wherein said step of detecting said restricted movement of one of said plurality of accessors at a position along said at least one path, additionally comprises reading said position from said failed accessor.

s/n: 10/720,886

14

Amdt. Dated: April 12. 2005

Reply to Office action of: 02/18/2005

40.(Original) The method of Claim 39, wherein said step of detecting said restricted movement of one of said plurality of accessors comprises operating said another of said plurality of accessors to attempt to move said failed accessor, and detecting said restricted movement by failure to move said failed accessor.

41.(Original) The method of Claim 39, wherein said step of detecting said restricted movement of one of said plurality of accessors comprises receiving a movement failure indication from said failed accessor.

42.(Withdrawn) A method for operating a plurality of accessors of an automated data storage library which separately access said automated data storage library along at least one path, and which interfere with one another along said at least one path, said automated data storage library having a work queue of commands for operating at least one of said plurality of accessors, said method comprising the steps of:

detecting restricted movement of one of said plurality of accessors at a position along said at least one path;

determining a limit to commands of said work queue, said limit from and past said position of said accessor having said restricted movement, along said at least one path; and preventing execution of said limited commands.

Amdt. Dated: April 12, 2005

Reply to Office action of: 02/18/2005

43.(Withdrawn) The method of Claim 42, wherein said step of preventing execution of said limited commands additionally comprises failing said limited commands with a "hardware" error.

44 (Withdrawn) The method of Claim 42, wherein said commands for operating said at least one of said plurality of accessors comprise at least an origin and a destination, and said step of determining a limit to commands of said work queue comprises determining whether either an origin or a destination of a command of said work queue is beyond said limit.

45.(Withdrawn) The method of Claim 44, wherein said automated data storage library comprises a plurality of frames in sequence along said at least one path; and wherein said step of detecting said restricted movement of one of said plurality of accessors at a position along said at least one path, additionally comprises determining the one of said frames in which said accessor having said restricted movement is positioned.

46.(Withdrawn) The method of Claim 45, wherein said step of determining a limit to commands of said work queue comprises establishing said limit at a frame of said sequence spaced from said one of said frames in which said accessor having said restricted movement is positioned, said frame spaced in the direction of said at least one path toward said another accessor.

Amdt. Dated: April 12, 2005

Reply to Office action of: 02/18/2005

47. (Withdrawn) The method of Claim 44, wherein said automated data storage library comprises a plurality of storage shelves for storing portable data storage media for access by said plurality of accessors, said storage shelves arranged in a plurality of columns along said at least one path; and wherein said step of detecting said restricted movement of one of said plurality of accessors at a position along said at least one path, additionally comprises determining the one of said columns at which said accessor having said restricted movement is substantially positioned.

48.(Withdrawn) The method of Claim 47, wherein said step of determining a limit to commands of said work queue comprises establishing said limit at a column spaced from said column at which said accessor having said restricted movement is positioned, said column of said limit spaced in the direction of said at least one path toward said another accessor.

49.(Currently Amended) A computer program product usable with at least one programmable computer processor having computer readable code embodied therein, said at least one programmable computer processor for operating a plurality of accessors of an automated data storage library which separately access said automated data storage library along at least one path, and which interfere with one another along said at least one path, said computer program product comprising:

computer readable program code causing said at least one programmable computer processor to detect restricted movement of one of said plurality of accessors at a position along said at least one path by failure to move said one of said plurality of accessors to a service bay; and

s/n: 10/720,886 17 TUC920030160US1

Amdt. Dated: April 12, 2005

Reply to Office action of: 02/18/2005

computer readable program code causing said at least one programmable computer processor to determine a range of motion of another of said plurality of accessors along said at least one path which avoids interfering with said accessor having said restricted movement, at said position along said at least one path.

50.(Original) The computer program product of Claim 49, wherein said automated data storage library comprises a plurality of frames in sequence along said at least one path; and additionally comprising computer readable program code causing said at least one programmable computer processor to determine the one of said frames in which said accessor having said restricted movement is positioned, to detect said position along said at least one path of said accessor having said restricted movement.

51.(Original) The computer program product of Claim 50, wherein said computer readable program code causing said at least one programmable computer processor to determine said range of motion comprises limiting motion of said another accessor to said frames of said sequence, extending from a frame of said sequence spaced from said one of said frames in which said accessor having said restricted movement is positioned, to one end of said automated data storage library, all in the direction of said at least one path toward said another accessor.

52.(Original) The computer program product of Claim 49, wherein said automated data storage library comprises a plurality of storage shelves for storing portable data storage media for access by said plurality of accessors, said storage shelves arranged in a plurality of columns along said at least one path; and wherein said computer readable program code causing said at least one s/n: 10/720,886

18

TUC920030160US1

Amdt, Dated: April 12, 2005

Reply to Office action of: 02/18/2005

programmable computer processor to detect said restricted movement of one of said plurality of accessors at a position along said at least one path, additionally comprises determining the one of said columns at which said accessor having said restricted movement is substantially positioned.

53.(Original) The computer program product of Claim 52, wherein said computer readable program code causing said at least one programmable computer processor to determine said range of motion comprises limiting motion of said another accessor to said frames of said sequence, extending from a column spaced from said column at which said accessor having said restricted movement is positioned, to one end of said automated data storage library, all in the direction of said at least one path toward said another accessor.

The computer program product of Claim 49, A computer program 54,(Currently Amended) product usable with at least one programmable computer processor having computer readable code embodied therein, said at least one programmable computer processor for operating a plurality of accessors of an automated data storage library which separately access said automated data storage library along at least one path, and which interfere with one another along said at least one path, said computer program product comprising: computer readable program code causing said at least one programmable computer processor to detect restricted movement of one of said plurality of accessors at a position along said at least one path; and computer readable program code causing said at least one programmable computer processor to determine a range of motion of another of said plurality of accessors along said at least one path which avoids interfering with said accessor having said restricted movement, at said s/n: 10/720,886 19 TUC920030160US1

Amdt. Dated : April 12, 2005

Reply to Office action of: 02/18/2005

position along said at least one path; wherein said computer readable program code causing said at least one programmable computer processor to detect said restricted movement of one of said plurality of accessors at a position along said at least one path, comprises computer readable program code causing said at least one programmable computer processor to operate said another of said plurality of accessors to attempt to move [[said]] a failed accessor, detecting said restricted movement by failure to move said failed accessor, and detecting the position of said another accessor along said at least one path at said failure.

55.(Currently Amended) The computer program product of Claim [[49]] <u>54</u>, wherein said computer readable program code causing said at least one programmable computer processor to detect said restricted movement of one of said plurality of accessors at a position along said at least one path, additionally comprises computer readable program code causing said at least one programmable computer processor to read said position from said failed accessor.

56.(Original) The computer program product of Claim 55, wherein said computer readable program code causing said at least one programmable computer processor to detect said restricted movement of one of said plurality of accessors at a position along said at least one path, comprises computer readable program code causing said at least one programmable computer processor to operate said another of said plurality of accessors to attempt to move said failed accessor, detecting said restricted movement by failure to move said failed accessor.

s/n: 10/720.886 20 TUC920030160US1

Amdt. Dated: April 12, 2005

Reply to Office action of: 02/18/2005

57.(Original) The computer program product of Claim 55, wherein said computer readable program code causing said at least one programmable computer processor to detect said restricted movement of one of said plurality of accessors at a position along said at least one path, comprises computer readable program code causing said at least one programmable computer processor to receive a movement failure indication from said failed accessor.

58.(Withdrawn) A computer program product usable with at least one programmable computer processor having computer readable code embodied therein, said at least one programmable computer processor for operating a plurality of accessors of an automated data storage library which separately access said automated data storage library along at least one path, and which interfere with one another along said at least one path, said automated data storage library having a work queue of commands for operating at least one of said plurality of accessors, said computer program product comprising:

computer readable program code causing said at least one programmable computer processor to detect restricted movement of one of said plurality of accessors at a position along said at least one path;

computer readable program code causing said at least one programmable computer processor to determine a limit to commands of said work queue, said limit from and past said position of said accessor having said restricted movement, along said at least one path; and

computer readable program code causing said at least one programmable computer processor to prevent execution of said limited commands.

s/n: 10/720,886 21 TUC920030160US1

Amdı. Dated : April 12, 2005

Reply to Office action of: 02/18/2005

59.(Withdrawn) The computer program product of Claim 58, wherein said computer readable program code causing said at least one programmable computer processor to prevent execution of said limited commands, additionally comprises computer readable program code causing said at least one programmable computer processor to fail said limited commands with a "hardware" error.

operating said at least one of said plurality of accessors comprise at least an origin and a destination, and wherein said computer readable program code causing said at least one programmable computer processor to determine a limit to commands of said work queue, comprises computer readable program code causing said at least one programmable computer processor to determine said at least one programmable computer processor to determine whether either an origin or a destination of a command of said work queue is beyond said limit.

61.(Withdrawn) The computer program product of Claim 60, wherein said automated data storage library comprises a plurality of frames in sequence along said at least one path; and additionally comprising computer readable program code causing said at least one programmable computer processor to determine the one of said frames in which said accessor having said restricted movement is positioned, to detect said position along said at least one path of said accessor having said restricted movement.

s/n: 10/720,886 22 TUC920030160US1

another accessor.

Amdt. Dated : April 12, 2005

Reply to Office action of: 02/18/2005

62.(Withdrawn) The computer program product of Claim 61, wherein said computer readable program code causing said at least one programmable computer processor to determine a limit to commands of said work queue comprises establishing said limit at a frame of said sequence spaced from said one of said frames in which said accessor having said restricted movement is positioned, said frame spaced in the direction of said at least one path toward said

63. (Withdrawn) The computer program product of Claim 60, wherein said automated data storage library comprises a plurality of storage shelves for storing portable data storage media for access by said plurality of accessors, said storage shelves arranged in a plurality of columns along said at least one path; and wherein said computer readable program code causing said at least one programmable computer processor to detect said restricted movement of one of said plurality of accessors at a position along said at least one path, additionally comprises determining the one of said columns at which said accessor having said restricted movement is substantially positioned, to detect said position along said at least one path of said accessor having said restricted movement.

64.(Withdrawn) The computer program product of Claim 63, wherein said computer readable program code causing said at least one programmable computer processor to determine a limit to commands of said work queue comprises establishing said limit at a column spaced from said column at which said accessor having said restricted movement is positioned, said column of said limit spaced in the direction of said at least one path toward said another accessor.

s/n: 10/720,886 23 TUC920030160US1